

## Abstract of the Disclosure :

An electric power line is wired with a loop shape and from this electric power line a power supply for a load is supplied, and according to another system against this electric power line, a control system power supply is supplied. One shutdown means is provided in a module which is connected to the loop shape power supply supplying line, when the electric power line and the load become a short, by separating using the shutdown means, only a fail point can be separated. Further, during a sleep time, by stopping the power supply supplying to the load, a consumption current can be restrained. According to a detection a ground short and a fail on a connection of a connector, an over-current prevention of an electric power line a simple construction can be improved and a low consumption current can be realized.

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